USB DRIVER INSTALLATION GUIDE

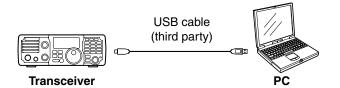
Thank you for using the Icom Download Service.

Please read this installation guide before installing the USB driver into your PC that is connected to the IC-7200 with the USB (Universal Serial Bus) cable (third party).

OVERVIEW

When the transceiver is connected to a PC with the USB cable, the following operations can be performed;

- Remote control operation (CI-V: Icom Communication Interface-V) by the PC.
- Modulation input from the PC.
- Received audio output to the PC.



NOTE:

- PC software (third party) may be required. (p. 18)
- The CT-17 CI-V LEVEL CONVERTER is required for remote control operation (CI-V) when the USB cable is not used. See p. 88 in the IC-7200 instruction manual for details.
- The transceiver connection may not be recognized by the PC because of the USB cable length.
- Using the shorter USB cable as possible is rec-
- ommended.

System requirements

- The PC which supports the following OS (Operating System) is required;
- Microsoft[®] Windows Vista[™]
- Microsoft[®] Windows[®] XP
- Microsoft[®] Windows[®] 2000

- NOTE: The U Windo Icom i the PC In this scribe "Wind • The USB driver is not supported for Microsoft® Windows[®] XP (64 bit).
 - · Icom is not responsible for whole performance of the PC that supports above OS.
 - In this installation guide, the above OS are de-
- scribed as "Windows Vista," "Windows XP" and
- "Windows 2000."

Item requirements

USB cable (A-B type/third party)



- PC (with USB 1.1 or 2.0)
- Installed audio player
- PC software (third party)
- See p. 18 for details.

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PRECAUTIONS

Before connecting to the PC

The process of connecting the USB cable (third party) between the transceiver and a PC may differ according to your OS.

See the "Driver installation" on pgs. 4 to 11 for details.

- After the driver installation is completed, the USB cable can be connected regardless of the OS.
- The USB driver installation is required for each unit, because of the COM port number difference.

Important

- Audio from the USB port may cut out or audio control with the PC software may get late because of the PC performance (including OS, environment, etc.)
- Audio from the USB port may cut out when the CPU load increases.
- The audio device settings of OS may be changed when the transceiver is connected to the PC.
- Icom is not responsible for proper operation when connecting the transceiver and the PC through an USB hub.

For IC-PCR1500/IC-PCR2500 user

• USB driver on the supplied CD

The file that is included on the supplied CD with the IC-PCR1500/IC-PCR2500 is the same as the download file from Icom HP. So, the USB driver installation can also be performed with the supplied CD.

USB driver uninstallation

If the USB driver uninstallation is performed, the connected unit (when the USB driver is installed) or IC-PCR1500/IC-PCR2500 cannot be used.

USB driver re-installation

The USB driver installation is required for each unit, because of the COM port number difference. See the IC-PCR1500/IC-PCR2500 instruction manual when installing the USB driver with the supplied CD.

PROCEDURE

Refer to the following steps for the USB driver installation.

Before installing the USB driver, log in as the administrator and quit all applications when Windows is running.

Overview	System requirements Item requirements	(p. 1) (p. 1)
Precautions	Before connecting to the PC Important For IC-PCR1500/IC-PCR2500 user	(p. 2) (p. 2) (p. 2)
Preparing	Before installing the USB driver	(p. 3)
Driver installation	• Windows Vista • Windows XP • Windows 2000	(p. 4) (p. 6) (p. 9)
COM Port Confirmation	• Windows Vista • Windows XP/Windows 2000	(p. 12) (p. 12)
Driver uninstallation	• Windows Vista • Windows XP/Windows 2000	(p. 13) (p. 13)
For your reference	COM Port settingAbout audioSpecifications	(p. 14) (p. 16) (p. 19)

PREPARING

Before installing the USB driver

Icom HP gives the USB driver download service. Before installing the USB driver, download the following compressed file.

• USB driver (File name: 7200UsbDrv_v100.zip)

Icom is not responsible for any damage or lack of data resulting from the use of the USB driver.

Windows Vista

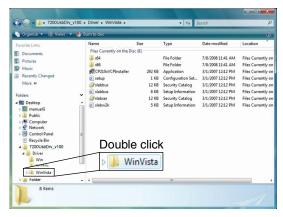
NOTE:

- NEVER connect the transceiver to the PC with the USB cable (third party) until the USB driver installation has been completed.
- The USB driver for Windows Vista does not support the automatic recognition system.

- The displayed dialogue boxes, indications or oper-ations may differ slightly from the following instruc-tions according to your system conditions or envi-ronment.
- 1) Make sure that the transceiver is not connected to the PC.
- 2 Start up Windows.

• Quit all other application if running.

- 3 Double-click the "WinVista" folder.
 - The folder construction: "7200UsbDrv_v100" → "Driver" → "WinVista"



(4) Double-click the "CP210xVCPInstaller.exe" to start up the USB driver installer.

🐚 Organize 👻 🏢 Views 👻 🔇	Burn to disc		_	_	0
Favorite Links Cocuments Cocuments Cocuments Motic Recently Changed More Folders Calobian More Source More Source More Source Cocuments More Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Sour	Name Files Currently on the Di S64 ##CCP210xVCPInstaller Stabbus stabbus Stabbus Stabbus Stabbus	292 KB	Type File Folder File Folder Application Configuration Set Security Catalog Setup Information Security Chalog Setup Information	Date modified 7/8/2008 11:41 AM 7/8/2008 11:41 AM 3/1/2007 12:12 PM 3/1/2007 12:12 PM 3/1/2007 12:12 PM 3/1/2007 12:12 PM 3/1/2007 12:12 PM	Location Files Currently of Files Currently of
BernanualG Public Public Computer Public Computer Public Control Panel Recycle Bin T200UbBbry v100 Vin Win	<mark>∰</mark> CP.		PInstaller	5/1/2007 12:12 PM	ries Currently o

(5) "A program needs your permission to continue" dialogue box appears as below. Click [Continue].

User Account (Control gram needs your permission to continue	×
If you started	l this program, continue. Driver Installation Utility Silicon Laboratories Click	
🕑 <u>D</u> etails	Continue	ncel
User Account	Control helps stop unauthorized changes to your comp	uter.

6 Verify the installation location, then click [Install].

K Silicon Laboratories CP210x USB to UAR	T Bridge Driver Installer
Silicon Laboratories Silicon Laboratories CP210x USB to L	IART Bridge
Installation Location:	Driver Version 4.40
C:\Program Files\Silabs\MCU\CP210x\	Click
Change Install Location	Install

(1) Windows starts scanning for the system, then starts installing the USB driver.

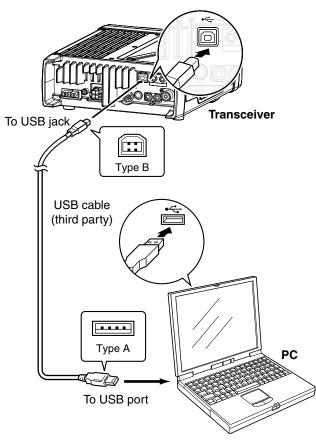


8 After the installation is completed, click [OK]. • Restarting the PC is recommended.



Windows Vista (Continued)

- ④ After restarting the PC, connect the transceiver to the PC with the USB cable (third party) as shown below.
 - Be sure to connect the USB cable correctly and not upside down.



① Turn the transceiver power ON.• "Installing device driver software" appears as below.



①After the dialogue appears as below, USB driver installation has been completed.



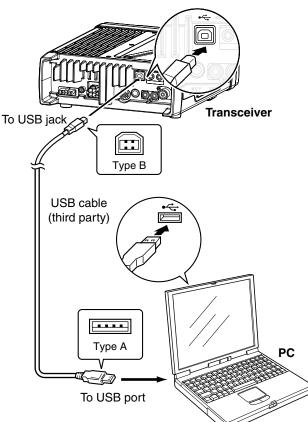
Windows XP

NOTE:

BE SURE to connect the transceiver to the PC with the USB cable (third party) before installing the USB driver.

- The displayed dialogue boxes, indications or oper-ations may differ slightly from the following instruc-tions according to your system conditions or envi-ronment.

- ①Make sure that the transceiver is not connected to the PC.
- (2) Start up Windows.
 - Quit all other application if running.
- 3 Connect the transceiver to the PC with the USB cable (third party) as shown below.
 - Be sure to connect the USB cable correctly and not upside down.



④ Turn the transceiver power ON. • "Found New Hardware" appears as below.



(5) The "Welcome to the Found New Hardware Wizard" will come up as below. Select "No, not this time," then click [Next>].

Found New Hardware Wize	ard
Found New Hardware Wizk	Welcome to the Found New Hardware Wizard Windows will seach for current and updated software by looking on you computer, on the hardware installation CD, or on the Window Update Web alte (with your permission). Read our privace policy Can Windows concert to Windows Update to search for software? Or yes, this time only Or yes, this time only
	< Back Next > Cancel

6 Select "Install from a list or specific location (Advanced)," then click [Next>].

Found New Hardware Wiz	ard
	Welcome to the Found New Hardware Wizard
	This wizard helps you install software for:
	CP2102 USB to UART Bridge Controller
- And	If your hardware came with an installation CD or floppy disk, insert it now. What do you want the wizard to do?
	 Install the onfluence automatically (Recommanded)
Selec	Install from a list or specific location (Advanced)
	Click: Next to continue. Click

⑦ Select "Search for the best driver in these locations." then select "Include this location in the search," and click [Browse].

	Found New Hardware Wizard
	Please choose your search and installation options.
Se	ect 💽 Search for the best driver in these locations.
	Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.
	Search removable media (lloppy, CD-ROM) Select (VI Include this location in the search:
ĺ	Biowse
	Don't search. I will choose the driver to install.
	Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.
	< <u>B</u> ack <u>Next</u> > Cancel

Windows XP (Continued)

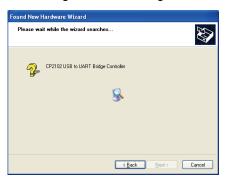
 (8) Select the "Win" folder, then click [OK].
 • The folder construction: "7200UsbDrv_v100" → "Driver" → "Win"

Browse For Folder	? 🔀
Select the folder that contains drivers for your l	hardware.
🞯 Desktop	^
🗉 🚞 My Documents	
🖃 😼 My Computer	
Local Disk (C:)	
7200UsbDrv_v100	
(🗅 🌆) Select	
- winne	~
To view any subfolders, click Click bove.	
OK	Cancel

9 Click [Next>].



10 The Wizard starts searching for the driver and shows the dialogue below during search.



 After the driver is found, the "Hardware Installation" dialogue box appears as below.

Click [Continue Anyway] to start the installation.



12 Windows starts installing the USB driver.

und New Hardware Wizard			
Please wait while the wizard installs the	e software		1
CP210x USB Composite Device			
Ď	6	Þ	
słabunin2k.exe To C:\WIND0WS\system32			
	< Back	Next >	Cancel

(3) After the installation is completed, click [Finish].



(4) After clicking [Finish], the dialogue appears as below.



(5) The "Welcom to the Found New Hardware Wizard" will come up again to install the USB serial port driver.

Select "No, not this time," then click [Next>].

Found New Hardware Wiz	ard
Found new frait lowaits with the second seco	Welcome to the Found New Hardware Wizard Windows will search for current and updated software by tooking on you computer, on the hardware installation CD, or on the Window Ubdate Web site (with your permission). Read our privacy policy Can Windows connect to Windows Update to search for software?
	Click
	< Back Next > Cancel

Windows XP (Continued)

(6 Select "Install from a list or specific location (Advanced)," then click [Next>].



⑦ Select "Search for the best driver in these locations." then select "Include this location in the search:", and click [Browse].

	Found New Hardware Wizard
	Please choose your search and installation options.
Se	ect Search for the best driver in these locations.
	Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.
	Click
	Select Include this location in the search:
	Biowse
	Don't search. I will choose the driver to install.
	Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.
	<back next=""> Cancel</back>

- 18 Select the "Win" folder, then click [OK].
 - The folder construction: "7200UsbDrv_v100" → "Driver" → "Win"



19 Click [Next>].



⁽²⁾ The Wizard starts searching for the driver and shows the dialogue below during search.

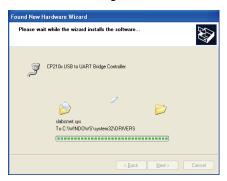
Found New I	lardware Wizard
Please wa	it while the wizard searches
%	CP2102 USB to UART Bridge Controller
	8
	Cancel

② After the driver is found, the "Hardware Installation" dialogue box appears as below.

Click [Continue Anyway] to start the installation.

Hardw	are Installation
!	The software you are installing for this hardware: CP210x USB to UART Bridge Controller
	has not passed Windows Logo testing to verify its compatibility with Windows XP. (<u>Tell me why this testing is important.</u>)
	Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
	Click
	Continue Anyway

22 Windows starts installing the USB driver.



23 After the installation is completed, click [Finish].

Found New Hardware Wiz	ard
	Completing the Found New Hardware Wizard
	The wizard has finished installing the software for:
	CP210x USB to UART Bridge Controller
	Click Finish to close the wizard.
	< Back Finish Cancel

After clicking [Finish], the dialogue appears as below.Restarting the PC is recommended.

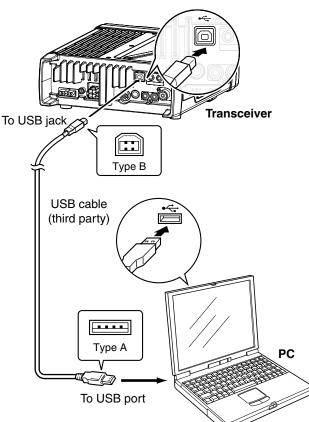


Windows 2000

NOTE:

BE SURE to connect the transceiver to the PC with the USB cable (third party) before installing the USB driver.

- The displayed dialogue boxes, indications or operations may differ slightly from the following instrucations ma tions acc ronment. tions according to your system conditions or envi-
- 1) Make sure that the transceiver is not connected to the PC.
- 2 Start up Windows.
 - Quit all other application if running.
- 3 Connect the transceiver to the PC with the USB cable (third party) as shown below.
 - · Be sure to connect the USB cable correctly and not upside down.



(4) Turn the the transceiver power ON. • "Found New Hardware" appears as below.



(5) The "Found New Hardware Wizard" will come up as below.

Click [Next>].



6 Select "Search for a suitable driver for my device (recommended)," then click [Next>].

Fou	nd New Hardware Wizard
	Install Hardware Device Drivers A device driver is a software program that enables a hardware device to work with an operating system.
	This wizard will complete the installation for this device:
	CP2102 USB to UART Bridge Controller
	A device driver is a software program that makes a hardware device work. Windows needs driver files for your new device. To locate driver files and complete the installation click Next.
	What do you want the wizard to do?
Sele	ect (Search for a suitable driver for my device (recommended)
	C Display a list of the known drivers for this device so that I can choose a specific driver
	Click
	< Back Cancel

⑦ Select "Specify a location," then click [Next>].



8 Click [Browse...].



Windows 2000 (Continued)

- (9) Select "slabbus.inf" in the "Win" folder, then click [Open].
 - The folder construction: "7200UsbDrv_v100" → "Driver" → "Win"



10 Click [OK].

Found Net	w Hardware Wizard	×	
2	Insert the manufacturer's installation disk into the drive selected, and then click OK.	OK Cancel	Click
	Copy manufacturer's files from: F:\7200UsbDrv_v100\Driver\Win	Browse	

①When the driver is found, the following dialogue is displayed.

Click [Next>] to start the installation.

Found New Hardware Wizard Driver Files Search Results The wizard has finished searching for driver files for your hardware device. Windows found a driver for the following device: OP 2102 USB to UART Bridge Controller Windows found a driver for this device. To install the driver Windows found, click Next. Windows found, click Next. OP 102 USB to UART Bridge Controller Windows found, a driver for this device. To install the driver Windows found, click Next. OP 102 USB to UART Bridge Controller Vindows found, a driver for this device. To install the driver Windows found, click Next. OP 102 USB to UART Bridge Controller Vindows found, click Next. OP 11/2200.usbdrv_v100/\driver\win\slabbus inf Click Click

⁽¹⁾After the installation is completed, click [Finish].



① The "Found New Hardware Wizard" appears again. Click [Next>].



Select "Search for a suitable driver for my device (recommended)," then click [Next>].

Found New Hardware Wizard
Install Hardware Device Drivers A device driver is a software program that enables a hardware device to work with an operating system.
This wizard will complete the installation for this device:
CP2102 USB to UART Bridge Controller
A device driver is a software program that makes a hardware device work. Windows needs driver files for your new device. To locate driver files and complete the installation click Next.
What do you want the wizard to do?
Select (Search for a suitable driver for my device (recommended)
C Display a list of the known drivers for this device so that I can choose a specific driver
Click
< Back Next > Cancel

(15) Select "Specify a location," then click [Next>].

1 Ound	New Hardware Wizard
Lo	scate Driver Files Where do you wank Windows to search for driver files?
	Search for driver files for the following hardware device:
	CP2102 USB to UART Bridge Controller
	The wizard searches for suitable drivers in its driver database on your computer and in any of the following optional search locations that you specify.
	To start the search, click Next. If you are searching on a floppy disk or CD-ROM drive, insert the floppy disk or CD before clicking Next.
	Optional search locations:
	Floppy disk drives
	CD-BOM drives
Selec	t 🔽 Specify a location
	<u>microsort windows</u> Update Click
	< Back Next> Cancel

Windows 2000 (Continued)

16 Click [Browse...].

and Ne	w Hardware Wizard	1
<u>}</u>	Inset the manufacturer's installation disk into the drive selected, and then click DK.	OK Cancel
	Copy manufacturer's files from:	Click

- ⑦ Select "slabw2k.inf" in the "Win" folder, then click [Open].
 - The folder construction: "7200UsbDrv_v100" → "Driver" → "Win"



18 Click [OK].

Found Nev	w Hardware Wizard	
2	Inset the manufacture's installation disk into the drive	Click
	Copy manufacturer's files from. [F:\7200UsbDrv_v100'\Driver\Win Image: Copy manufacturer's files from.	

(9) When the driver is found, the following dialogue is displayed.

Click [Next>] to start the installation.

nd New Har	dware Wizard
	s Search Results ard has finished searching for driver files for your hardware device.
The wize	ard found a driver for the following device:
2	CP2102 USB to UART Bridge Controller
Window	s found a driver for this device. To install the driver Windows found, click Next.
	f:\7200usbdrv_v100\driver\win\slabw2k.inf
	Click
	< Back Cancel

20 After the installation is completed, click [Finish].Restarting the PC is recommended.

Found New Hardware Wizard	
	Completing the Found New Hardware Wizard
	Windows has finished installing the software for this device.
	To close this wizard, click Finish.
	< Back Finish Cancel

COM PORT CONFIRMATION

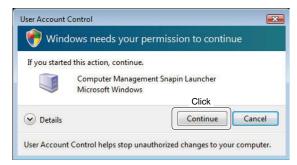
After the driver installation is completed, confirming the driver availability and the port number is recommended.

Windows Vista

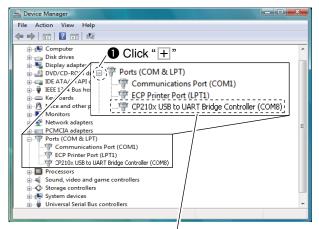
- 1 Start up Windows.
- (2) Right click "Computer," then select "Properties." • "Computer" is available in <Start> menu.
- (3) "System" screen appears as below. Click [Device Manager].

T: Click Cevice Manager Remote settings System protection Advanced system settings	View basic information about your computer Windows edition Windows Vista [™] Ultimate Copyright © 2006 Microsoft Corporation. All rights reserved.
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④ In case "User Account Control" dialogue box appears as below, click [Continue].



- (5) "Device Manager" screen appears. Click "
 "
 of "Ports (COM&LPT)."
- 6 Confirm "CP210x USB to UART Bridge Controller (COM *)" is displayed.
 - If "!" or "x" indicator is displayed on the "Device Manager" screen, the driver may not be installed properly. Un-install the USB driver then reinstall in such cases.
 - "*" is the COM port number, that is used for the communication setting with the utility software.



2 Check the COM port number. (In this example, the USB serial COM port number is "8.")

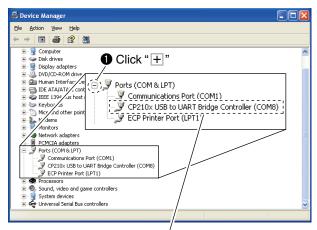
Windows XP

For Windows 2000: Refer to the following instructions because the operations of Windows 2000 are similar to Windows XP.

- 1 Start up Windows.
- 2 Right click "My Computer," then select "Properties." • "My Computer" is available in <Start> menu.
- 3 "System Properties" screen appears as below. Click [Hardware] tab and then click [Device Manager].

			Click	
System R	estore	Auto		Remote
General	Computer Na	me	Hardware	Advanced
Device Mar Sevice Mar	ager ne Device Manager	lists all th	e hardw	ick the

- (4) "Device Manager" screen appears. Click "
 ⁺" of "Ports (COM&LPT)."
- (5) Confirm "CP210x USB to UART Bridge Controller (COM *)" is displayed.
 - If "!" or "x" indicator is displayed on the "Device Manager" screen, the driver may not be installed properly. Un-install the USB driver then reinstall in such cases.
 - **" is the COM port number, makes and communication setting with the utility software. "*" is the COM port number, that is used for the

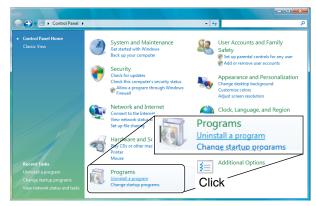


2 Check the COM port number. (In this example, the USB serial COM port number is "8.")

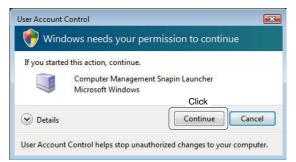
The displayed dialogue boxes or indications may differ slightly from the following instructions according to your system conditions, or environment.

Windows Vista

- 1 Start up Windows.
- (2) Select the "Control Panel" in the Start menu. • The control panel appears as shown in the next step below.
- 3 Click the "Uninstall a program."
 - The "Uninstall or Change a Program" menu appears.



- (4) Double-click "Silicon Laboratories CP210x USB to UART Bridge (DriverRemoval)."
- (5) In case "User Account Control" dialogue box appears as below, click [Continue].



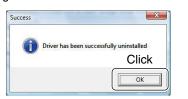
(6) The "Confirm Uninstall" appears.

Click [Uninstall] to uninstall the program from the PC.

The uninstallation starts.



 After the uninstall is completed, click [OK]. • Restarting the PC is recommended.



Windows XP

For Windows 2000: Refer to the following operations of Window XP. Refer to the following instructions because the operations of Windows 2000 are similar to Windows

- 1 Start up Windows.
- 2 Select the "Control Panel" in the Start menu.
 - The control panel appears as shown in the next step below.
- ③ Click the "Add or Remove Programs."
 - The "Add or Remove Programs" menu appears.

Control Panel	۲	Pick a category
See Also	۲	Appearance and Themes Printers and Other Hardware
 Windows Update Help and Support Other Control Panel Options 		Network and Internet
		Add or Remove Programs
		Add or Remove Programs

4 Select "CP210x USB to UART Bridge Controller," then click [Change/Remove].

🐻 Add or Re	move Programs
Change or	Currently installed programs: Show updates Sort by: Name
Remove Programs	<u>^</u>
Add New	
Programs	P CP210x USB to UART Bridge Controller Click
5	To change this program or remove it from your computer, click Change/Remove
Add/Remove Windows	

- 5 The "Ready to uninstall CP210x USB to UART Bridge Controller Driver?" appears.
 - Click [Yes] to uninstall the program from the PC. • The uninstallation starts.

Notifica	tion 🛛 🛛
2	Ready to uninstall CP210x USB to UART Bridge Controller Driver?

6 After the uninstall is completed, click [OK.] · Restarting the PC is recommended.

	Notification 🔀
	Uninstall Successfull
Clic	ck OK

FOR YOUR REFERENCE

When the transceiver is connected to a PC with the USB cable (third party), remote control operation can be performed with the CI-V command.

The IC-7200 has the USB-Serial convert function, so the PC recognizes the connected transceiver as COM port and the CI-V control software can be used.

Simultaneous use of the [USB] and [REMOTE] jacks are available.

COM Port setting

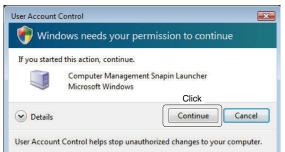
To change the COM Port number setting, connect the transceiver to the PC and then turn the transceiver power ON after the driver installation is completed.

Windows Vista

- 1) Start up Windows.
- (2) Right click "Computer," then select "Properties."
 "Computer" is available in <Start> menu.
- ③ "System" screen appears as below. Click [Device Manager].



④ In case "User Account Control" dialogue box appears as below, click [Continue].



(5) "Device Manager" screen appears.

Right click "CP210x USB to UART Bridge Controller (COM *)" and then click "Properties."

**" is the COM port number, that is used for the communication setting with the utility software.

le Action View Help	
🔿 🖬 🕞 🛛 🖬 🗔 🕼 🚱	
MANUALG-PC	
💮 🚛 Computer	
🗄 👝 Disk drives	
🕀 🃲 Display adapters	
DVD/CD-ROM drives	
😨 🕼 Human Interface Devices	
IDE ATA/ATAPI controllers	
IEEE 1394 Bus host controllers	
Eyboards	
Mice and other pointing devices	
🗈 🌉 Monitors	
Network adapters PCMCIA adapters	
Porte (COM & L Disubst alials	
Ports (COM & L Right-click	
CP210x USB to UART Bridge Controller (C	
	Update Driver Software
Processors	Disable
Sound, video and game controllers	Uninstall
Storage controllers Jean System devices	Scan for hardware changes
	Properties
Universal Serial Bus controllers	
📴 🖣 Universal Serial Bus controllers	Click

6 Click [Port Settings] tab, then click [Advanced...].

General Port Settings	lriver Details
Click	Bits per second: 9600 -
	Data bits: 8
	Parity: None
	<u>S</u> top bits: 1 ▼
	How control: None
	Advanced
	Click

Set the desired COM port number, then click [OK].

Select lower settings to corre-			C	Click	ОК
Select higher settings for fast					Cance
Receive Buffer: Low (1)		— Q	High (14)	(14)	<u>D</u> efault
Iransmit Buffer: Low (1)		-0	High (16)	(16)	
	• Set				

(8) Click [OK] to close the screen.

General	Port Settings	Driver	Details		
		<u>B</u> its p	er second:	9600	•
			Data bits:	8	Ŧ
			Parity:	None	•
			Stop bits:	1	¥
		Ele	ow control:	None	•
			Ad	vanced	Restore Default
				CI	ick

FOR YOUR REFERENCE

COM Port setting (Continued)

Windows XP

For Windows 2000: Refer to the following instructions because the operations of Windows 2000 are similar to Windows XP.

- 1 Start up Windows.
- 2 Right click "My Computer," then select "Properties." • "My Computer" is available in <Start> menu.
- ③ "System Properties" screen appears as below. Click [Hardware] tab and then click [Device Manager].



(4) "Device Manager" screen appears.

Right click "CP210x USB to UART Bridge Controller (COM*)" and then click "Properties."

"*" is the COM port number, that is used for the communication setting with the utility software.



5 Click [Port Settings] tab, then click [Advanced...].



6 Set the COM port number if desired, then click [OK].

Advanced Settings for COM9	? 🛛
Use FIFD buffers (requires 18550 compatible UART) Select lower settings to correct connection problems. Select higher settings for faster performance.	Click Cancel
<u>R</u> eceive Buffer: Low (1)	High (14) (14)
Iransmit Buffer: Low (1)	7 High (16) (16)
COM Port Number	

Click [OK] to close the screen.

P210x US	B to UART B	ridge Contro	ller (COM8) Propert.	?
General F	ort Settings Dr	iver Details			
	Ē	its per second:	115200		*
		<u>D</u> ata bits:	8		*
		Parity:	None		*
		<u>S</u> top bits:	1		*
		Elow control:	None		*
		Ad	vanced	<u>R</u> estore De	efaults
			Cli	ck	
			0	K []	Cancel

About audio

When the transceiver is connected to a PC with the USB cable (third party), the following operations can be performed;

• Received audio output to the PC.

• Modulation input from the PC.

The set mode item 'Modulation input (Data OFF)' or 'Modulation input (Data ON)' must be set as "U" (USB) for modulation input from the PC. See p. 17 on this installation guide or p. 77 on the IC-7200 instruction manual for details of settings.

[Received audio output to the PC]

The received audio output format

The received audio output format from the USB jack is listed as below.

	The number of data bit	16-bit
The received audio output	Sampling rate*	8/11.025/16/22.05/32/44.1/48 kHz
	The number of channel	Monaural (Stereo: The same audio signals are output from both L/R.)

* The sampling rate other than those above can be used according to the application.

The received audio output

The same audio signals are output from the USB jack and the ACC socket.

- The received audio is always output regardless of the squelch condition (open/close).
- (The beep tones and the voice synthesizer announcements are not output).
- The received audio output level cannot be adjusted with the [AF] control.

Operating mode

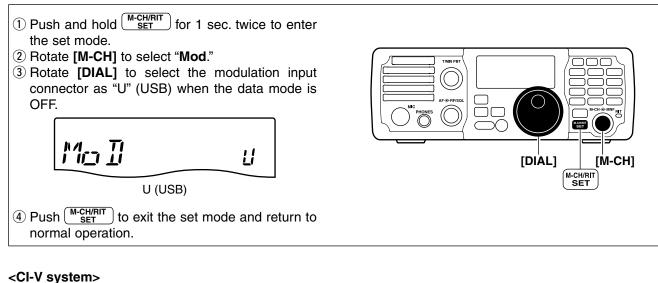
The modulation input can be used when SSB (LSB/USB), SSB data (LSBD/USBD), AM and AM data (AMD) mode is in use.

About audio (Continued)

The modulation input settings

To input the audio signal from the USB jack of the transceiver, set the modulation input connector as "USB" in the set mode item 'Modulation input (Data OFF)' or 'Modulation input (Data ON)', or CI-V system (command).

• When the data mode is OFF (SSB or AM mode is in use) <Set mode>

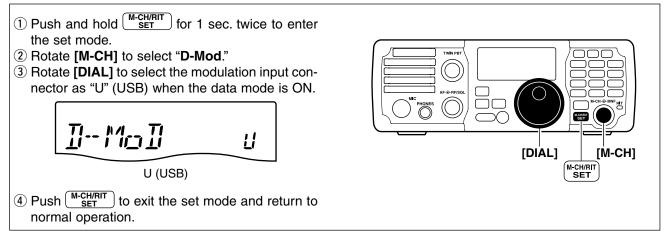


Send the command "FE FE 76 E0 1A 03 23 03 FD"* to the transceiver.

UŚB

*The transceiver's address is described as "76" and the controller's address is described as "E0" for examples in this guide.

• When the data mode is ON (SSB data or AM data mode is in use) <Set mode>



<CI-V system>

Send the command "FE FE 76 E0 1A 03 24 03 FD"* to the transceiver.

USB

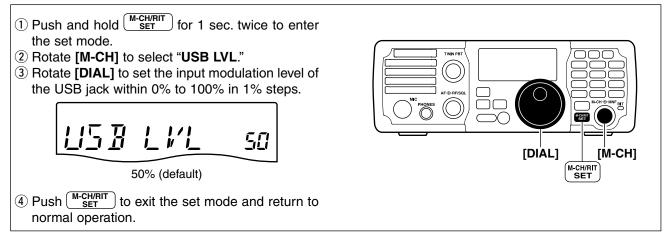
*The transceiver's address is described as "76" and the controller's address is described as "E0" for examples in this guide.

About audio (Continued)

USB level setting

Set the input modulation level of the USB jack in the set mode item 'USB Level' or CI-V system (command).

<Set mode>



<CI-V system>

Send the command "FE FE 76 E0 1A 03 25 0128 FD"* to the transceiver from the PC.

Input modulation level

• 0000 (0%) to 0255 (100%) can be set as the input modulation level.

*The transceiver's address is described as "76," the controller's address is described as "E0" and input modulation level is described as "0128 (50%)" for examples in this guide.

The modulation input audio format

The modulation input audio format from the USB jack is listed as below.

	The number of data bit	16-bit
Modulation input	Sampling rate*	32/44.1/48 kHz
	The number of channel	Monaural (Stereo: The audio signal from L is input.)

* The sampling rate other than those above can be used according to the application.

[Installed audio player] (Windows standard software, etc.)

When using the audio software (e.g. Windows standard software; Microsoft[®] Sound Recorder, etc.), the following operations can be performed;

- Received audio output to the PC.
- Modulation input from the PC.

PC software (third party) is additionally required when the following operations are performed;

- Monitoring the received audio with the speaker that is connected to the PC.
- Modulation input for the PC microphone's audio.

FOR YOUR REFERENCE (Continued)

Specifications

Connector type	USB B type	
Interface	USB 2.0/1.1	
Power supply	Self power	The PC cannot recognize the transceiver when the power is OFF.
Support OS	Windows Vista	· · · · · · · · · · · · · · · · · · ·
	Windows XP	
	Windows 2000	
Serial for CI-V	Compliant for CI-V spec.	
	Asynchronous serial	
	Construction (1 bite)	
	Start bit	:1
	Data bit	:8
	Parity bit	: No
	Stop bit	:1
	Speed	: 300/1200/4800/9600/19200 bps
Received audio output	Number of data bit	: 16-bit
	Sampling rate	: 8/11.025/16/22.05/32/44.1/48 kHz
	Number of channel	: Monaural (Stereo: The same audio signals are output from both L/R.)
Modulation input	Number of data bit	: 16-bit
	Sampling rate	: 32/44.1/48 kHz
	Number of channel	: Monaural (Stereo: The audio signal from L is input.)

All stated specifications are subject to change without notice or obligation.